

MCB (Mini Console Box)

Features

- ✓ Up to Four Dual or Single Axis Joysticks for Proportional Control
- ✓ Up to Five Toggles or Optional Button Controls
- ✓ 900 MHz @ 10 mW or 2.4 GHz @ 100 mW Operation
- ✓ Push/Pull Professional Machine Stop
- ✓ Four System Status/Diagnostic LEDs
- ✓ CAN Umbilical Connection Available
- ✓ Operates Using Four AA Alkaline Batteries
- ✓ Magnets for Convenient Attachment to Ferrous Surfaces
- ✓ Belt Loops to Securely Attach to Belt or Harness



The SmaRT MCB Mini Console Box communicates with and controls SmaRT base units using either 900MHz (906–924 MHz @ 10 mW) or 2.4 GHz (2405–2480 MHz @ 100 mW) frequency ranges. Using line-of-sight Direct Sequence Spread Spectrum (DSSS) technology, either broadcast range offers a generous control distance in crowded radio environments with the added benefit of neither broadcast range requiring a license for use. The rugged enclosure and water-resistant components ensure reliable operation in harsh weather environments, operating in temperatures as low as -20°C and as high as 55°C (-4°F to 131°F). The MCB internal antenna broadcasts to base units and also uses a Control Area Network (CAN) Bus umbilical connection when engineered to do so. The SmaRT Mini Console Box offers a variety of joystick and switch options that are factory configured upon ordering.

Specifications

Power

Operating Voltage	1.6 to 3.2 VDC
Batteries	Four "AA" Cell
Low V Warning	2.1 V
Auto-Shutdown	2.0 V
Inactivity Shutdown	4-Minutes Standard (Programmable)

Environment

Operating Temp	-20° to $+55^{\circ}\text{C}$ (-4° to $+131^{\circ}\text{F}$)
Storage Temp	-40° to $+55^{\circ}\text{C}$ (-40° to 131°F)
Humidity	0 to 100%

Indicators (LEDs)

TX (green)	Solid – transmitting, switch active Flashing – transmitting, no switch active
RX (amber)	Flashing – receiving, no output of interest active Solid – receiving, output of interest active
ERR (red)	Indicates error
BATT (amber)	Flashing – low-battery indication

Control Switches

Joysticks	Up to four dual- or single-axis
Toggles	2- or 3-position momentary or maintained
M-Stop	Professional pull-up/push-down
Pushbutton	Activation Button
Umbilical	CAN J1939 (optional)

Enclosure

Material	High-impact polymer
Faceplate	Aluminum or polycarbonate
Hardware	Stainless steel
Dimensions (L x W x H)	mm: 180.03 x 105.44 x 117.04 inch: 7.09 x 4.15 x 4.61
Total Weight	1.13 kg (\approx 2.50 lbs.)

Radio

Frequency	906 MHz to 924 MHz @ 10 mW 2405 MHz to 2480 MHz @ 100 mW
License	None required
Modulation	Direct-Sequence-Spread-Spectrum (DSSS)
Antenna	Internal

MCB Product Family Listing

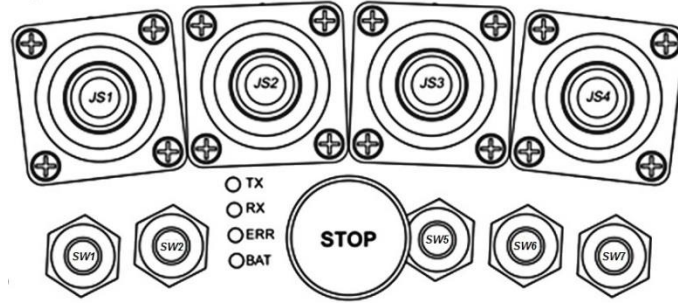
Common Features

Discrete Inputs and Type	Dedicated M-Stop	Magnets	Belt Loops	Activation
6-Momentary 3-Position Toggle	Yes	Yes	Yes	Power Button

Model-Specific Features

Model Name	Freq.	RF Power	Proportional Inputs Prop. Input Type	Umbilical
MCB-9H02JS-DIS	900 MHz	10 mW	4-Dual Axis	No
MCB-9H02JS-DIS-UMB	900 MHz	10 mW	4-Dual Axis	Yes
MCB-9H02JS-1	900 MHz	10 mW	4-Dual Axis	No
MCB-9H02JS-UMB-1	900 MHz	10 mW	4-Dual Axis	Yes
MCB-9H02JS-2	900 MHz	10 mW	4-Dual Axis	No
MCB-9H02JS-UMB-2	900 MHz	10 mW	4-Dual Axis	Yes
MCB-9H04JS	900 MHz	10 mW	8-Dual Axis	No
MCB-9H04JS-UMB	900 MHz	10 mW	8-Dual Axis	Yes
MCB-2H04JS	2.4 GHz	100 mW	8-Dual Axis	No
MCB-2H04JS-UMB	2.4 GHz	100 mW	8-Dual Axis	Yes
MCB-2H02JS-1	2.4 GHz	100 mW	4-Dual Axis	No
MCB-2H02JS-UMB-1	2.4 GHz	100 mW	4-Dual Axis	Yes
MCB-2H02JS-2	2.4 GHz	100 mW	4-Dual Axis	No
MCB-2H02JS-UMB-2	2.4 GHz	100 mW	4-Dual Axis	Yes
MCB-2H02JS-DIS	2.4 GHz	100 mW	4-Dual Axis	No
MCB-2H02JS-DIS-UMB	2.4 GHz	100 mW	4-Dual Axis	Yes
Custom Configurations by Request				

MCB Top Switch Layout



MCB Bottom Layout

